

2/5/1

DIALOG(R) File 351:Derwent WPI  
(c) 2004 Thomson Derwent. All rts. reserv.

003466404

WPI Acc No: 1982-14348E/ 198208

Fermentative prodn. of L-arginine - by incubation of microorganism of  
genus Brevibacterium or Corynebacterium

Patent Assignee: AJINOMOTO KK (AJIN )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 57005692	A	19820112				198208 B

Priority Applications (No Type Date): JP 8079958 A 19800613

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 57005692	A		4		

Abstract (Basic): JP 57005692 A

L-Arginine (I) is produced by incubation of microorganism (II) of  
genus Brevibacterium or Corynebacterium, being resistant against cpd.  
(III) having vitamin-P activity and being able to accumulate (I); and  
collection of (I) from culture medium. Prodn. efficiency is high.

Examples of (II) are Brevibacterium divaricatum, Brevibacterium  
flavum, Brevibacterium lactofermentum, Corynebacterium glutamicum, etc.  
As (III), acenocoumarin, apiin, coumetarol, cyclocumarol, dicumarol,  
etc. prepd. Typically (II) is incubated in culture medium composed of 2  
g/dl glucose; 0.1 g/dl KH<sub>2</sub>PO<sub>4</sub>; 0.04 g/dl MgSO<sub>4</sub>.7H<sub>2</sub>O; 1.0 mg/dl  
FeSO<sub>4</sub>.7H<sub>2</sub>O, etc. As carbon source, glucose, sucrose, and  
starch-hydrolysed prods. are used. As nitrogen source, ammonia gas,  
ammonia-water, ammonium salt and urea are suitable. The incubation is  
performed at 25-37 deg.C at pH 4-8 for 1-7 days.

Title Terms: FERMENTATION; PRODUCE; ARGININE; INCUBATE; MICROORGANISM;  
GENUS; BREVIBACTERIUM; CORYNEBACTERIUM

Derwent Class: B05; D16; E16

International Patent Class (Additional): C12P-013/10; C12R-001/13

File Segment: CPI